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FIG. 1

SEQ ID NO.

70	SLC26A1	(71)	* * * * *	GDVMSGLVIGIILVPOAIAYSLLAG--LQPLYSLYTSFFANLIYFLMGTS	* * * * *
71	SLC26A2	(110)	* * * * *	GDVMSGLVIGIILVPOAIAYSLLAG--QEPYGLYTSFFASTIYFLFCTS	* * * * *
72	SLC26A3	(75)	* * * * *	SDIVSGISTGLVAVLQGLAFALLVN--LPPAYGLYAAFFPVITYFFELGTS	* * * * *
73	SLC26A4	(86)	* * * * *	SDIISGVSTGLVGTQGMAYALLAA--VPVQFGLYSAFFPLITYFVFGTS	* * * * *
74	SLC26A5	(82)	* * * * *	GDVSGISTGVLOLPQGLAFAMLA--VPPVFGLYSSFPVIMYCFEFGTS	* * * * *
75	SLC26A6	(94)	* * * * *	GDVLSGLSVATMQLPQGLAYALLAG--LPPMFGLYSSFPVIMYCFEFGTS	* * * * *
76	SLC26A7	(49)	* * * * *	PDTVSGIMLAVQQAQGLSFAMLS--VHPVFGLYGSLFPAIITYAIFGMG	* * * * *
77	SLC26A8	(92)	* * * * *	GDVLAGLSVGLAQVQGLILSLTRQLPPLNVTYAAFCSSVIYVIFGSC	* * * * *
78	SLC26A9	(73)	* * * * *	PDVLSGLSGGCIQVPCGMFAFALLAN--LPAVNGLYSSFPPLITYFFELGGI	* * * * *
79	SLC26A11	(33)	* * * * *	LDFIAGLSVGLTVTPQALAYAEVAG--LPPQYGLYSAFMGCFVYFFELGTS	* * * * *
70	SLC26A1	(119)	* * * * *	RHVNVGIFSLICLMVGQVVDRELQLAGFDPSQDSIGPKNNDSTINNSATT	* * * * *
71	SLC26A2	(158)	* * * * *	RHISVGIFGILCLMIGEVDRELHKACPDTDATSSSIAVFSSGCVVNHT	* * * * *
72	SLC26A3	(123)	* * * * *	RHISVGPFPPVLSMVGVVTRVSDPNASS-----ELSSSSTENDSFI	* * * * *
73	SLC26A4	(134)	* * * * *	RHISVGPEPVPVSLMVGSVLSMAPDDHFLVPSGNGS-ALNSTEDTGTRD	* * * * *
74	SLC26A5	(130)	* * * * *	RHISIGPFAVISLMIGGVAVRVLPDDIVIPG-G-----VNAFNGTEARD	* * * * *
75	SLC26A6	(142)	* * * * *	RHISVGTEFVMSVMVGSVTESLTADKAFVQG-----LNATAD	* * * * *
76	SLC26A7	(97)	* * * * *	RHVATGTFALTSLTSANAVRVLVPQSSRNLTQ--S---NSSVLGLSEFE	* * * * *
77	SLC26A8	(142)	* * * * *	HQMSIGPEFLVSALMINVLKDRPFENNGHILG---TFVKDDFSVPTFYLS	* * * * *
78	SLC26A9	(121)	* * * * *	HQVPGTFEAVISILVGNICLQAPESKFIENN---VTNETYVDTAAME	* * * * *
79	SLC26A11	(81)	* * * * *	RDVTIGPTAIMSLVSVFYTEREPAYAVLLA-----	* * * * *

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FIG. 2

SLC26A6a

SEQ ID NO:6	Mouse	(1)	MGLPDCSDQGTHTQALSSAAQEMETQRRDVAHVERPPLTNQEQEEDTCHWG
SEQ ID NO:2	Human	(1)	MGLADASGP--RDITQAGLSATQAMDIERRRDVHMERPPLTNQEQEEDTCHWG
SEQ ID NO:6	Mouse	(51)	PVAKTHQWRWFRQSRARAHSITLQHVAPVIGWIPRQGVREWILGDLTSGE
SEQ ID NO:2	Human	(49)	SAPRTHQWRWVLCQSRARA YALHTQHVAPVIGWIPRQGVREWILGDLTSGE

FIG. 3

SEQ ID NO:10 (1) MDASPEPQQGGTLVLRPPVSQGLLETLKARLKKSCMPCAAQALV
 (51) QGLFPAIHWLPQYRLKEYLAGDVMSGVLIGIILVPQAIAYSLLAGLQPIY
 (101) SLYTSFFANLIYFLMGTSRHRVNVGIFSLCLMVGQVVDRELQLAGFDPQSQ
 (151) DSLGPKNDSTLN^{*}SATTLIIGLQDCRRDCYAIRVATALTLMAGLYQVLM
 (201) GILRLGFVSTYLSQPLLDGFAMGASVTILTSQAKHMLGVQIPRHQGLGMV
 (251) VHTWLSLLQNVGQANICDVVTSALCLGVLLAAKELSDRYRHLKVP IPT E
 (301) LEVIVVATIVSHFGQLHTRFD^{*}SRVAGNIPTGFVAPQVPDPKIMWRVALDA
 (351) MSLALVGSAFSISLAEMFARSHGYSVSANQELLAVGCCNVLPAFFHCFAT
 (401) SAALSKTLVKIATGCQTQLSSVVSAAVVLLVLLVLAFLHDLQRCVLACI
 (451) IVVSLRGALRKVKDLPQLWRI^{*}SPADALVWVATAATCVLSTEAGLLAGVF
 (501) FSLLSLAGRTQRPRAALLARIGDSTF^{*}EDAAEFEGLLPPPEVVRVFRF^{*}GP
 (551) LYYANKDFFFLRSLYRI^{*}GLDAGHSATRKDQGPVGVSNRSLVDGKDLGSV
 (601) SSGAGLVVPLAFGFHTVVIDCAPLLFLDVAGMATLKDRLRRDYRALDITLL
 (651) LACCSPSVRD^{*}TLRKGGFLGEEQGAENELLEFPVSHSAVEAAYARREELAA
 (701) DSAL

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FIG. 4

SEQ ID NO:13

TCTCTTCTTTAATCCCAGCACTCACTAGGCAGAGGCAGGTGGAATCTCTGTAGACAAGTCTGGTCTA
C/EBPbeta E12/E47
CAGAGAGTTCCAGGACAGCCAAGGCTAAACAGAGAAAACCTTGTCTGGAAAAAAGAAATGGAGGTG
GGGTGGGGCTGTCTTGAGGACCACTGTGCCAGGTCTCAGAAGGAAAAATCTGAGGGTGATACTCA
Sp1, AP-2 GATA-1
CAGCTTGTTGGTCCCTGAGAGACCCTACAGGCCTAGATCTCCACAGTTGAGGCTGGGGCCCCCTGG
GATA-1
TTGCACACCTAGGCATCCAGATCGGTCAAGAATGTCTCCTCTGCATAAAGTGGGGACCTTCTACAA
AGCATACAATTAGGTCCAGCCACTTAAGGGCACAGAGGCATAACATTGGCCAAGCGTAGCGCTGGG
GR/PR
CCTTCGTTCCAGTCTCCAGTCTCAGCAGAAATGCTCCAAGCTCCAGCAGGTTAACAAGAATCGCAG
AP-4
GCAGGGACAGAAGCTAGGCCGACGGGAAGGAAAGGGTTAAAATTTTATTCTCCGGGCTCGCCCCGC
Sp1
CCAGAGAGTATGACTTGATTCCACCCCCAGAATCTCTGATTGGTCTGATCTTGACATCCTAGCGG
Sp1 CP-2
TGGAGCTTGCGGCCCGGCCAAGTTCTGGGCCTGGCGCCACCTTCTAGCCGGTAGTGGCCTCCTGGGG
GAGCTGTTTGAAAAGCGGTACACGAGTTACCCCTCTGAGGGCCATGGGACTTCCCGATGGGTCCGGT
NF-KB
GAGTTGCAGGGCGCTGCCCAAATTCGCGTGGCCGCGAAGCGCTAGTAGTTCTGTGACTCCCGGCC
TGGGTCAATTCAGGAAGGGAACCTCCAAGTCCCCGACAGGCATTTCCCGTCTGCGGAGCCTTAGTT
AP-1
TACCGCCTTGCCGATTTTCCGAAGGAGGTTATCCATCAACAGCGAGGGATGGGGCGGGCTCTGGC
Sp1
GCGACCCAGCTCTTGAGGGTTGTACTGAACGTCCTGGAGTGCTAATAAGGGCGCTGCAGGGAAG
MAF
TTGCTGCTTACCGAGGAGTCCTGGCACGGGAGGTGTGCCAGCTGGGCGCGTTGGGACTGGGAGAGA
E12/E47
AACCGCTGCAAGACAGGCTCTAGCCAGGCGGTGGACCAGCCGCGCCTGAGTCGGCAGGGTACTGT

FIG. 5A

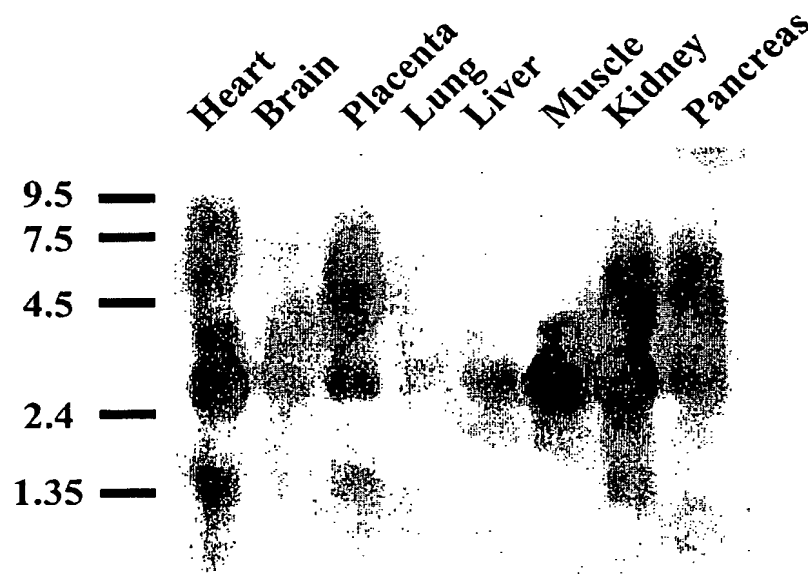
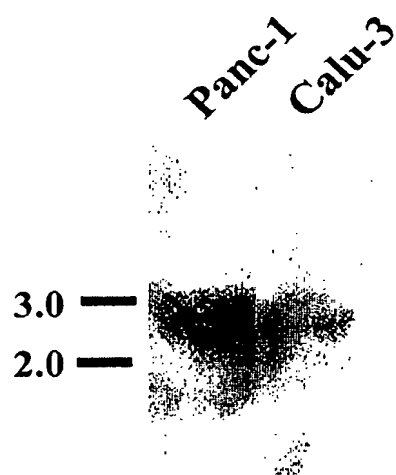
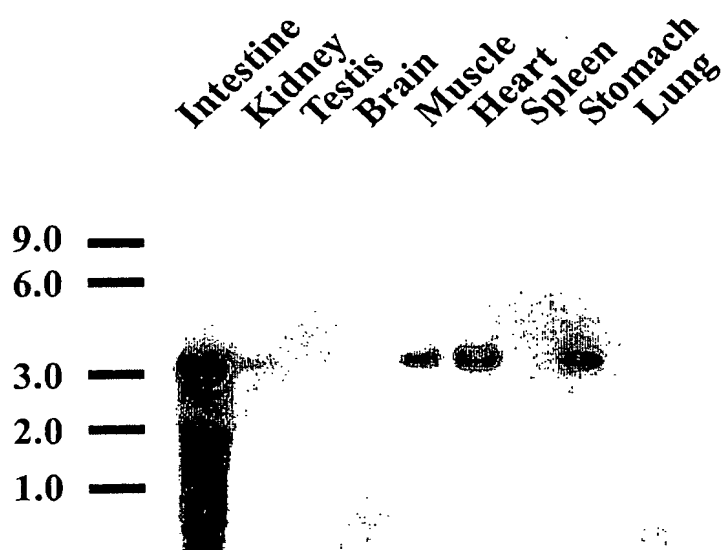
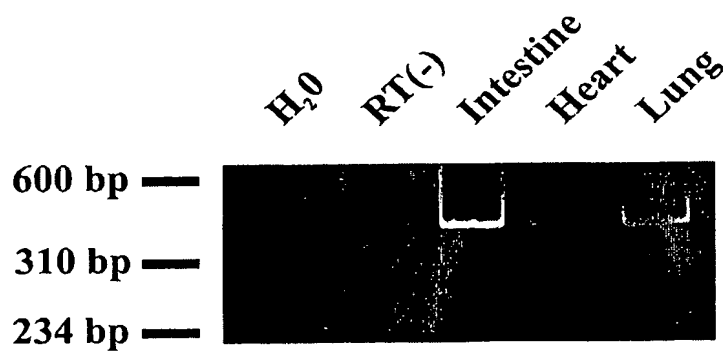


FIG. 5B



10/505263**FIG. 5C****FIG. 5D**

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FIG. 6A

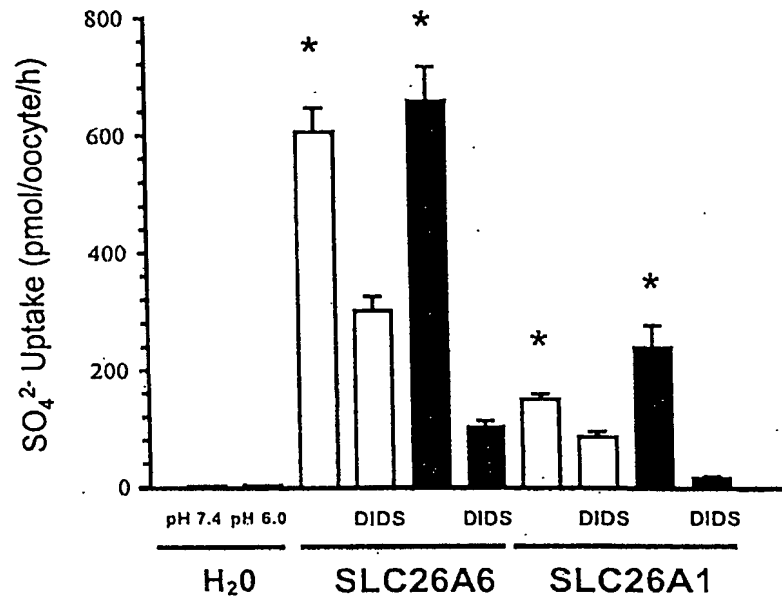


FIG. 6B

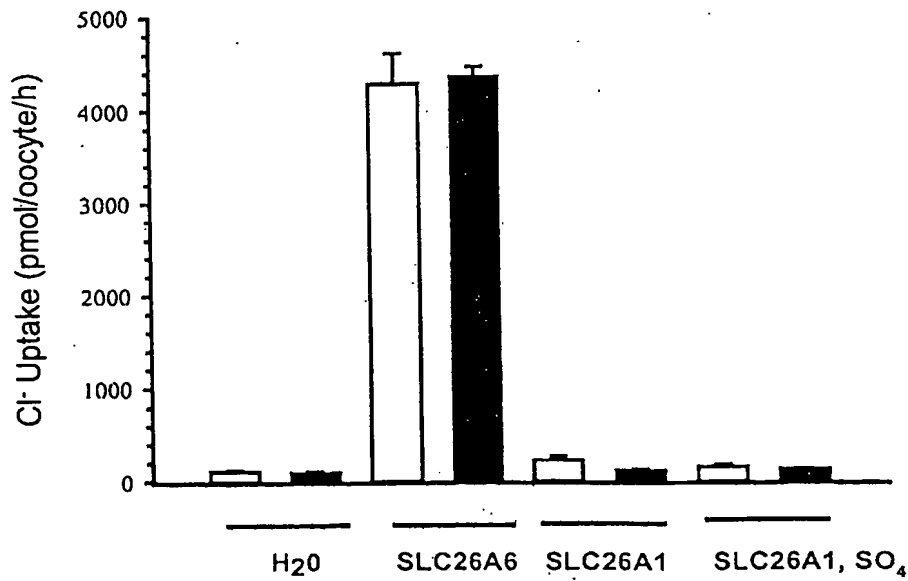


FIG. 6C

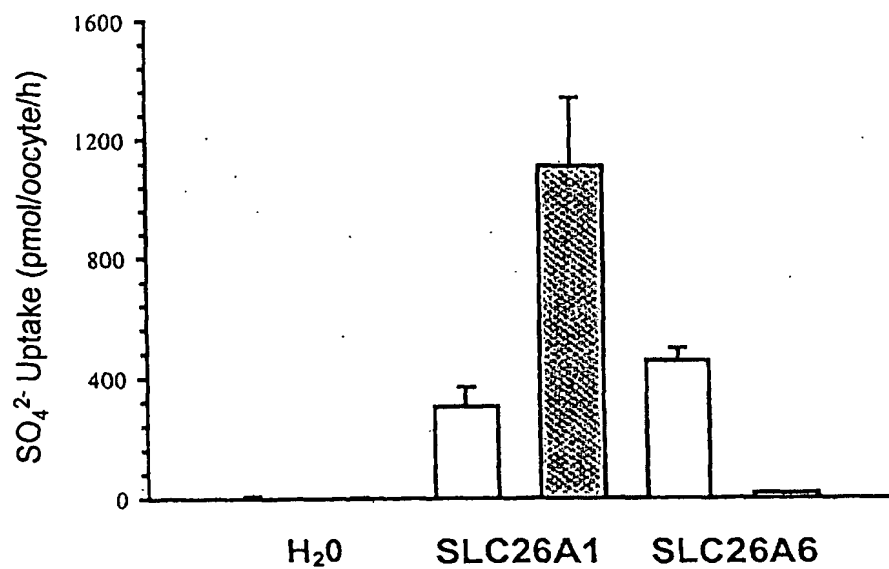
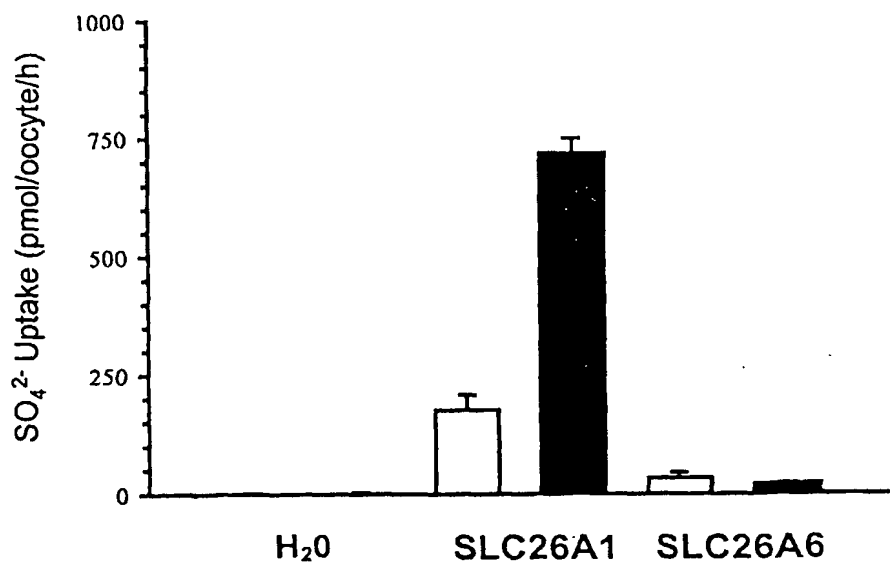


FIG. 6D



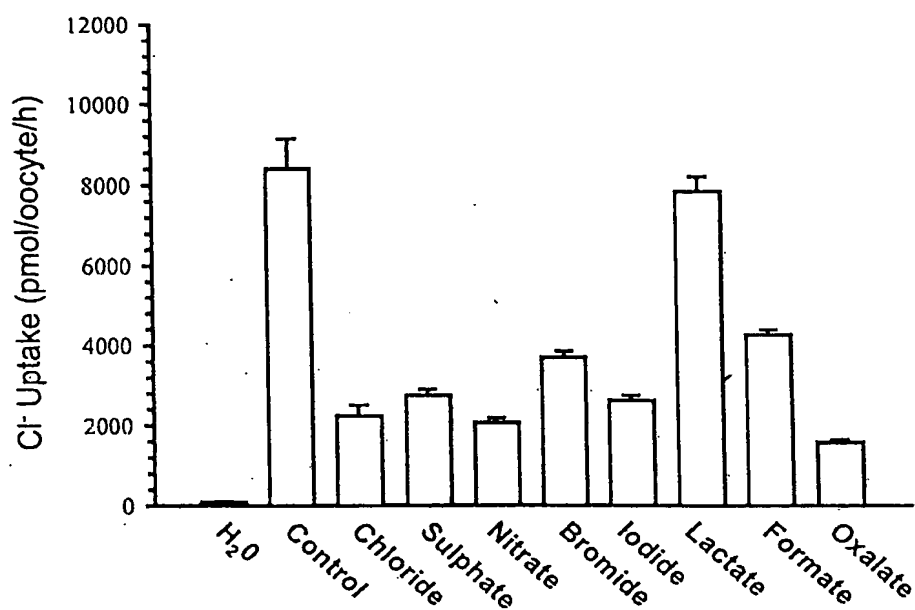
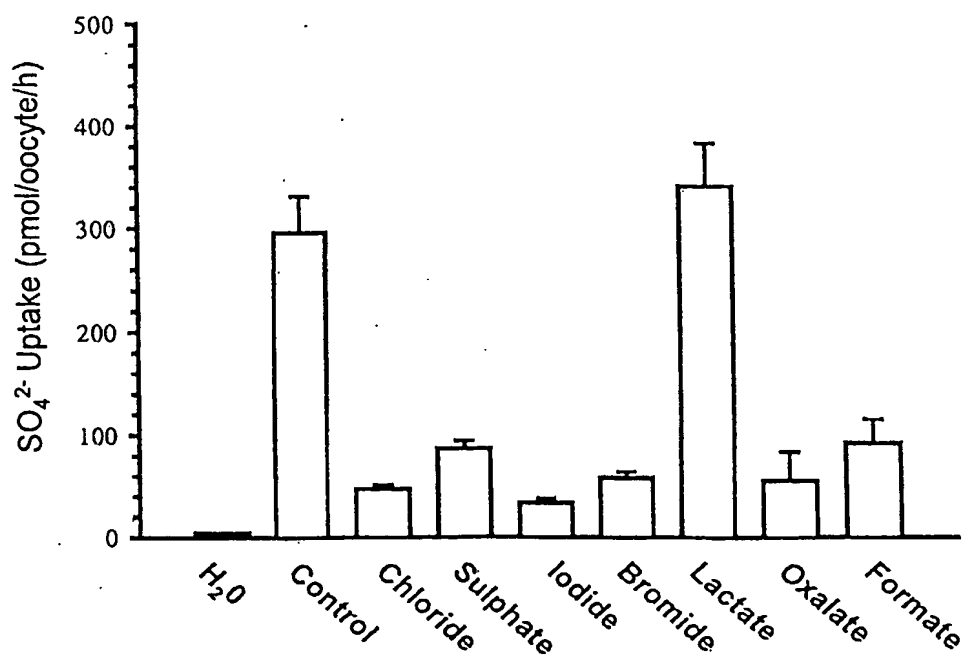
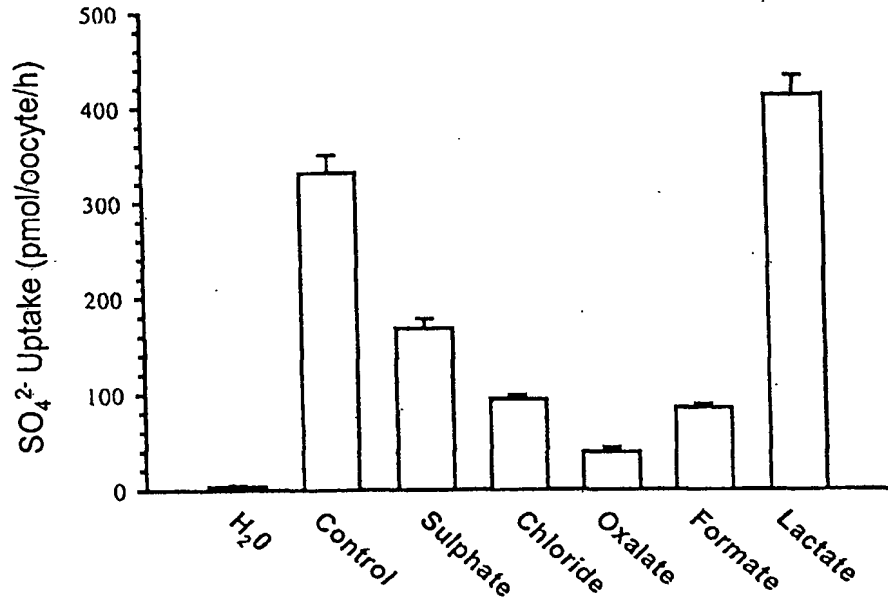


FIG. 7B





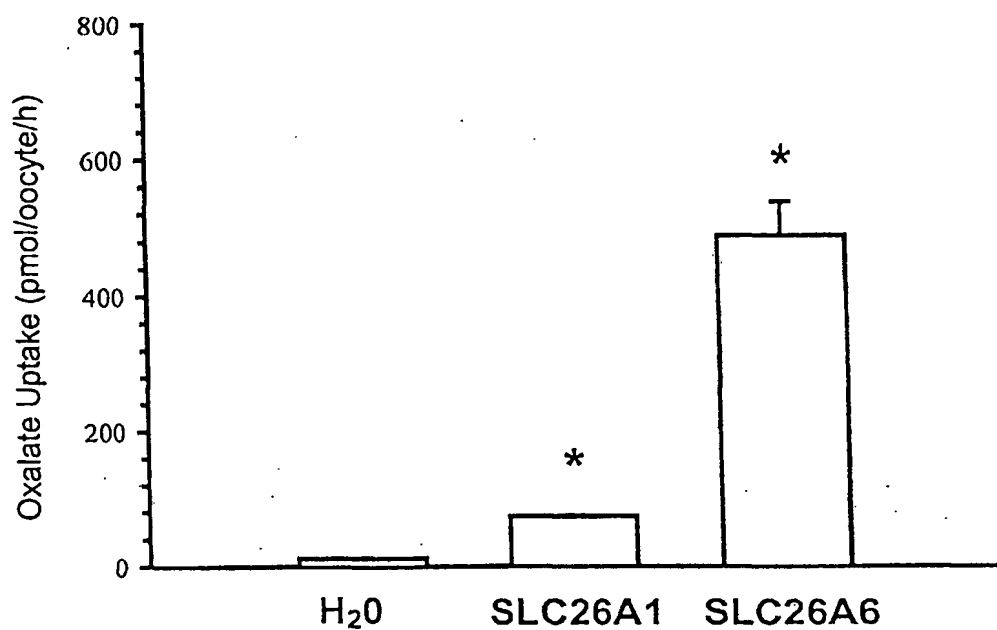
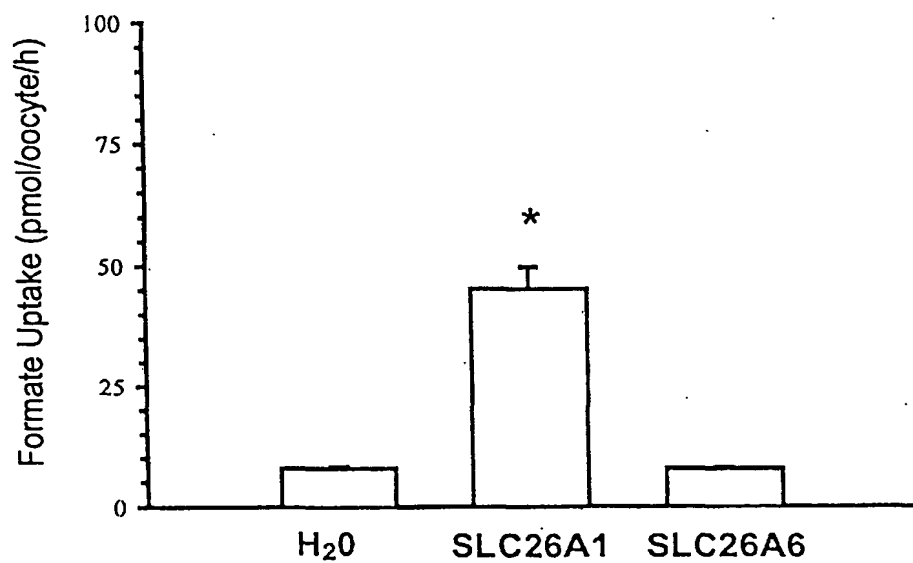


FIG. 8B



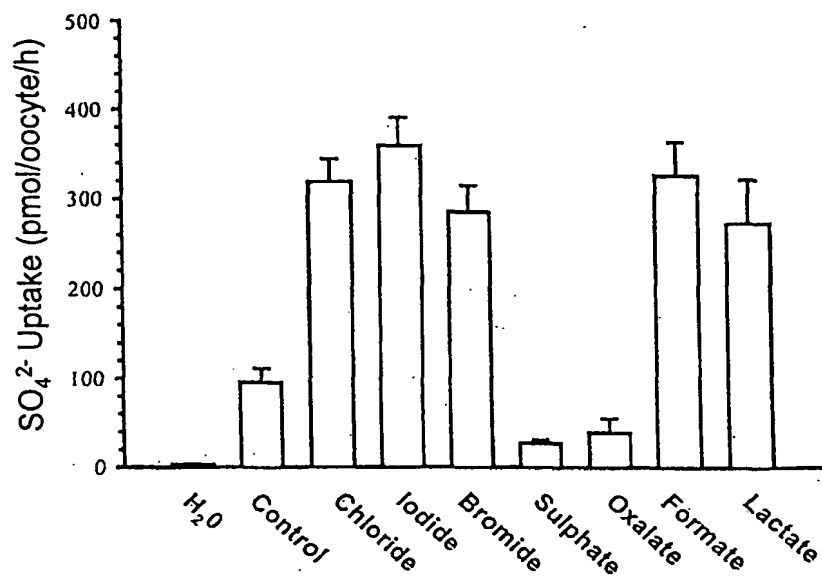


FIG. 9B

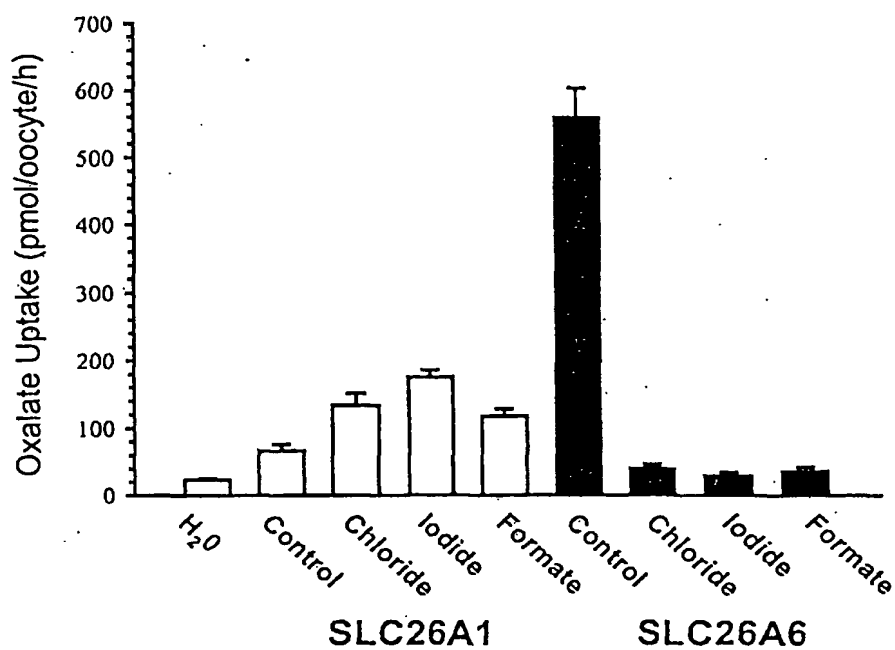


FIG. 10A

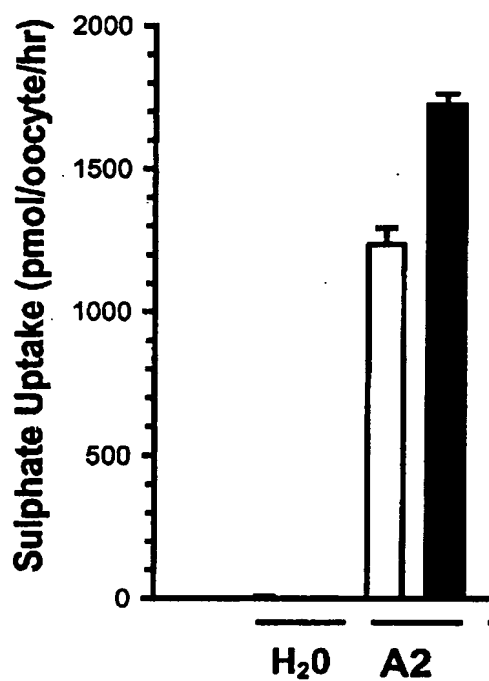
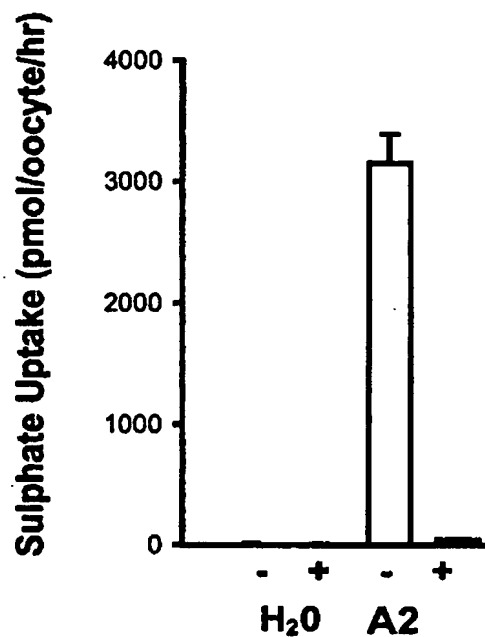
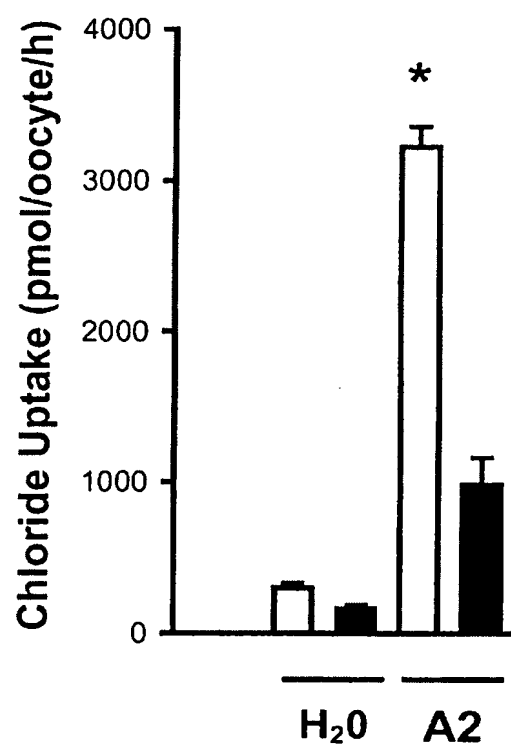


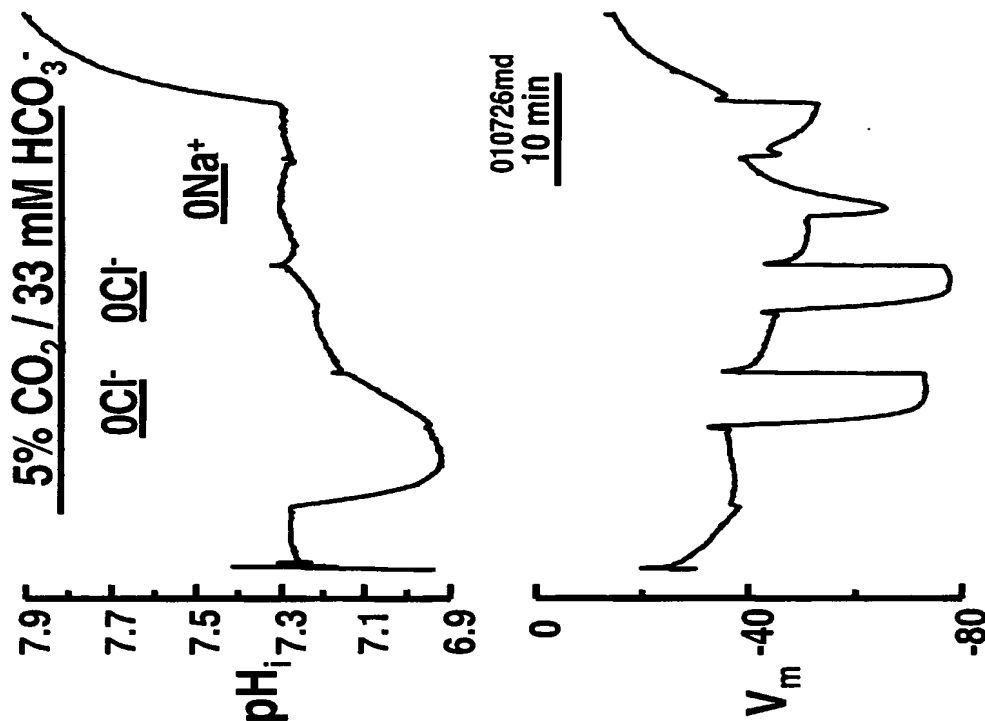
FIG. 10B



10/505263**FIG. 10C**

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B) Slc26a6



A) Water

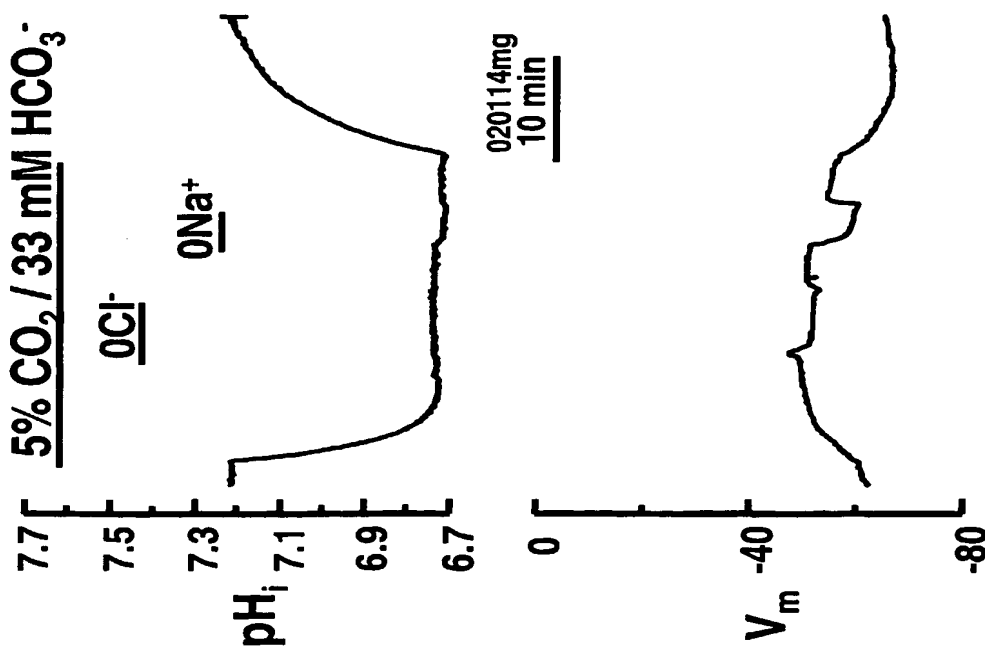
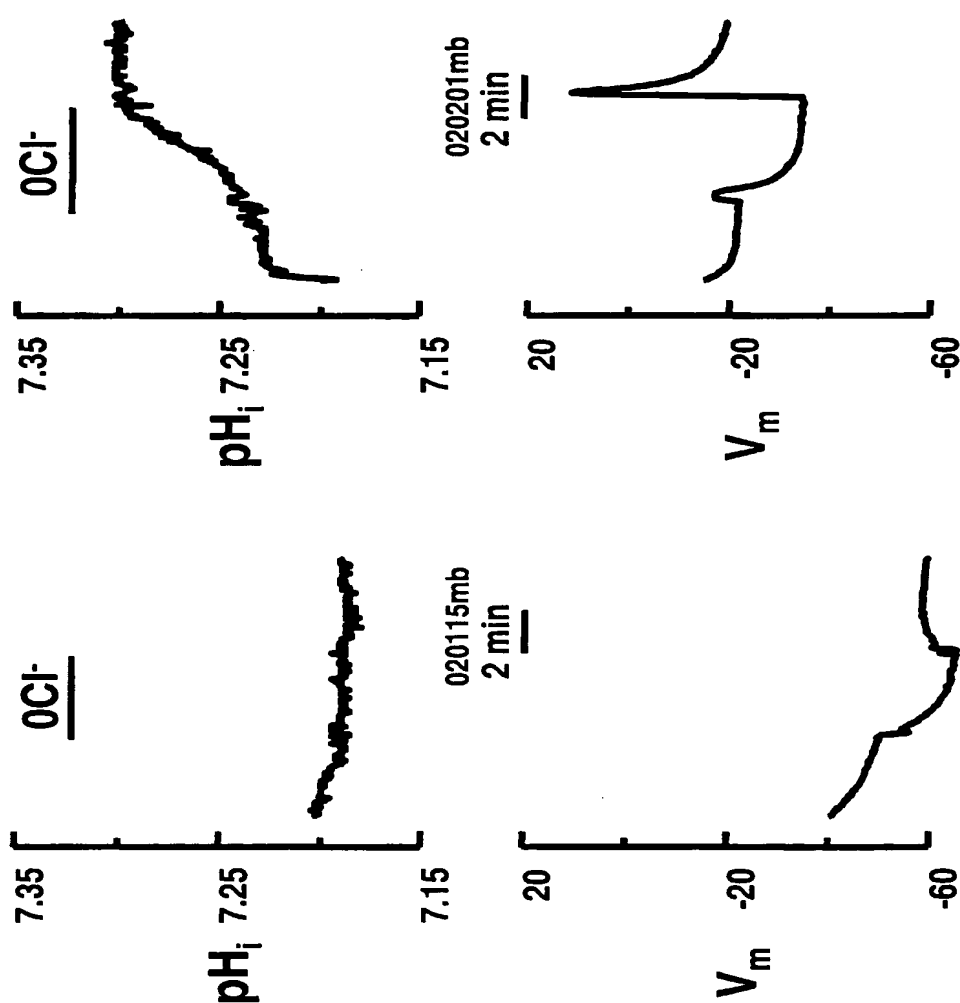


Figure 11

Figure 12
A) Water B) Slc26a6



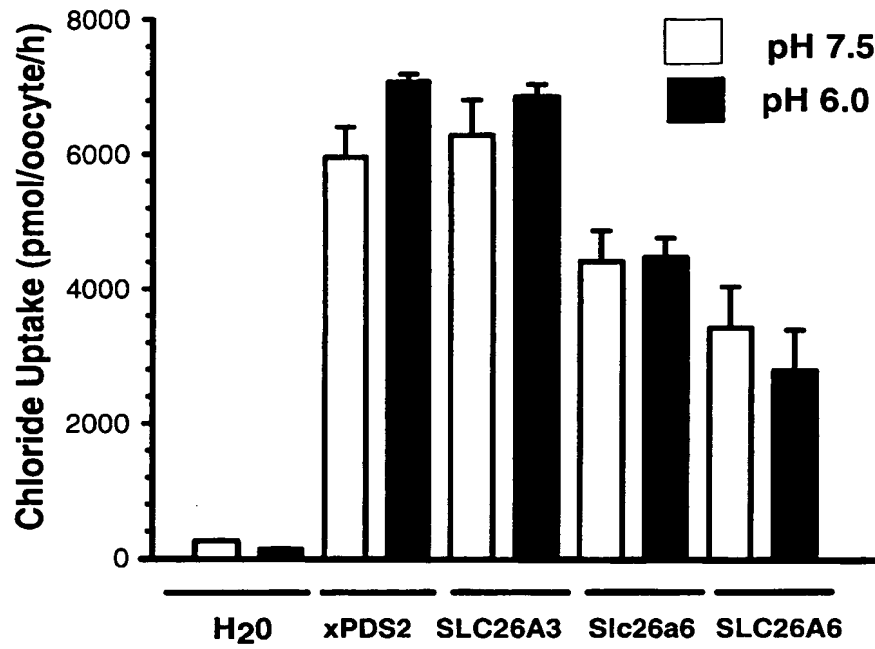


Figure 13

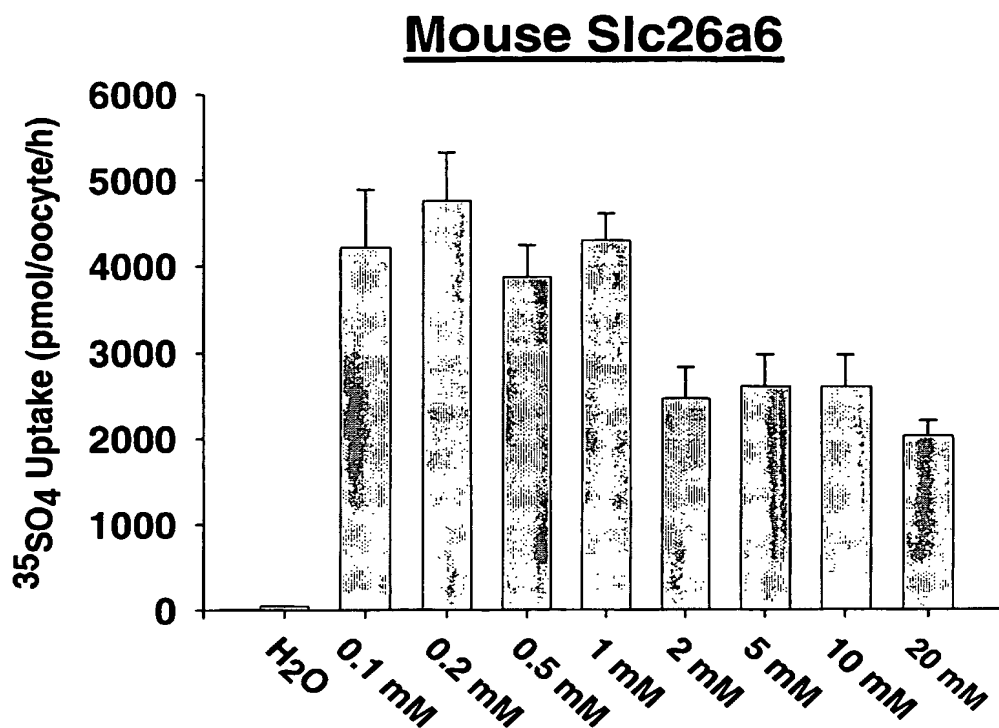


Figure 14

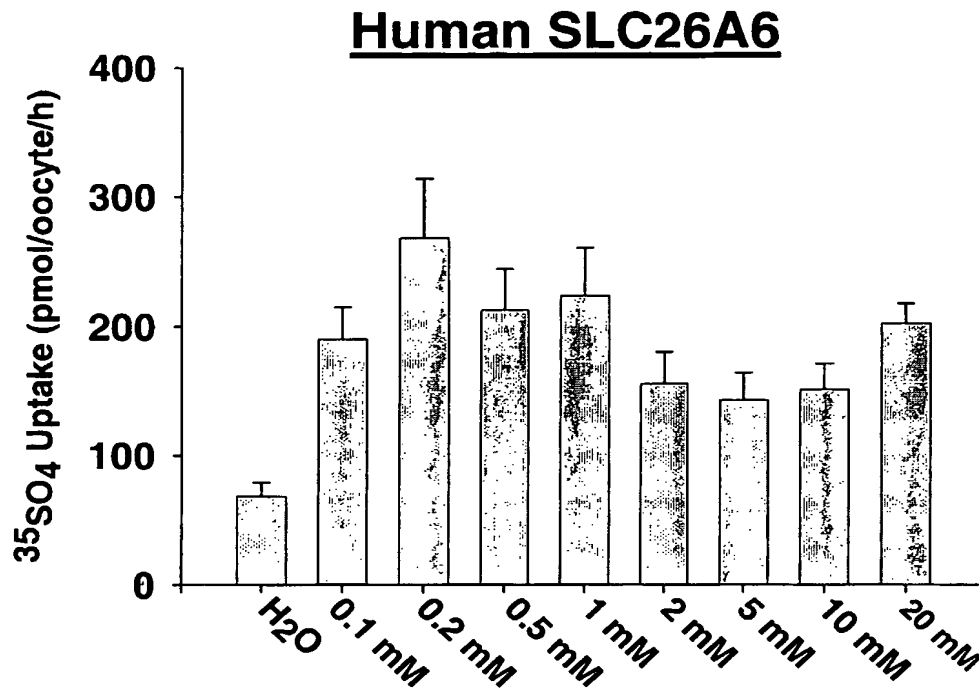


Figure 15

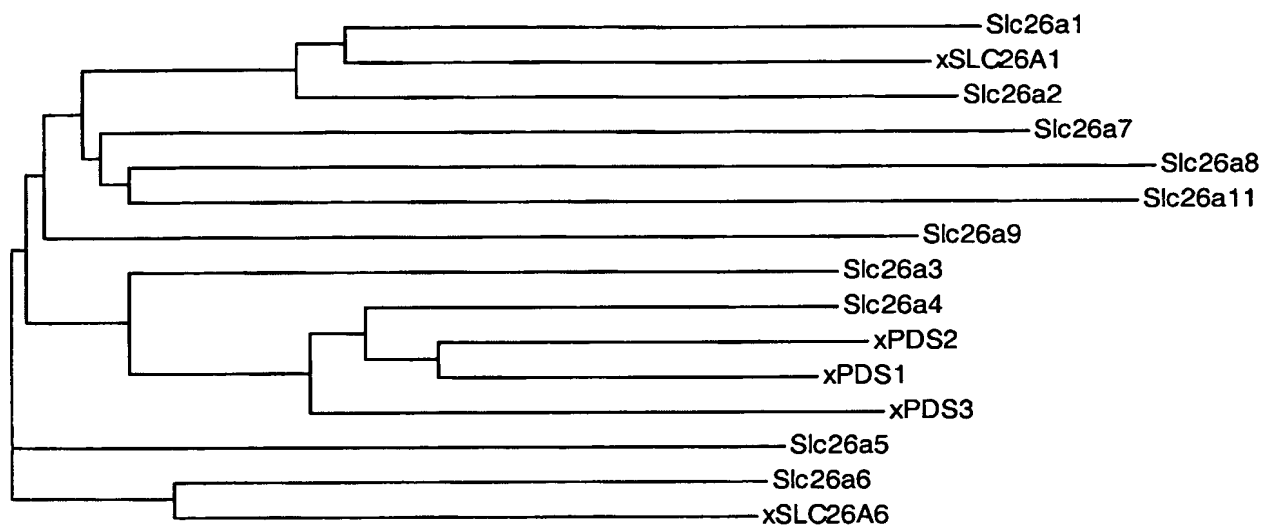


Figure 16

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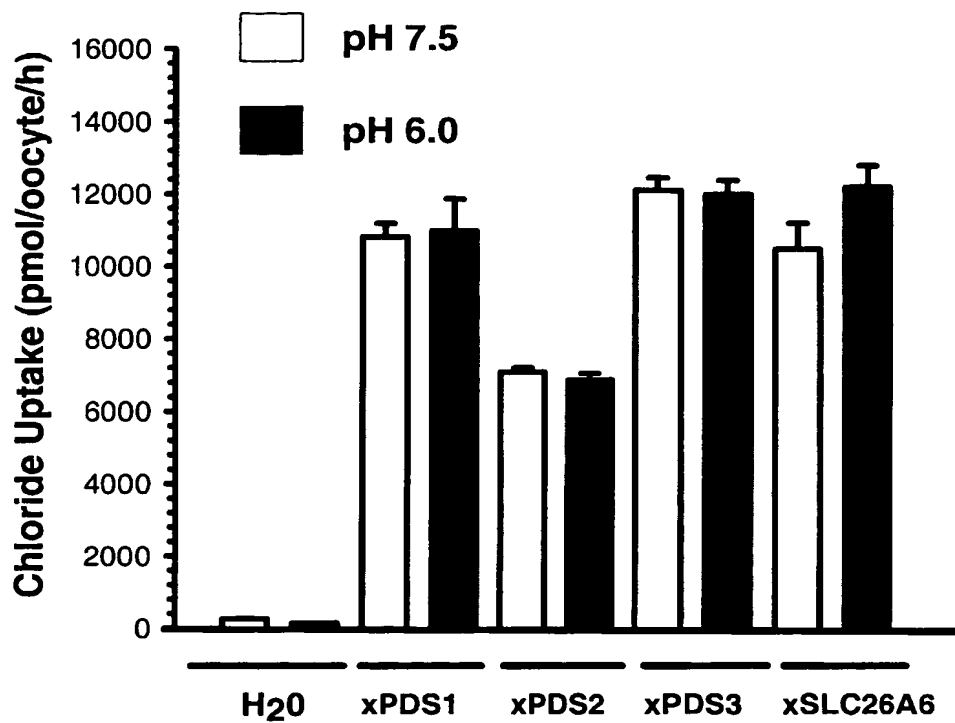


Figure 17

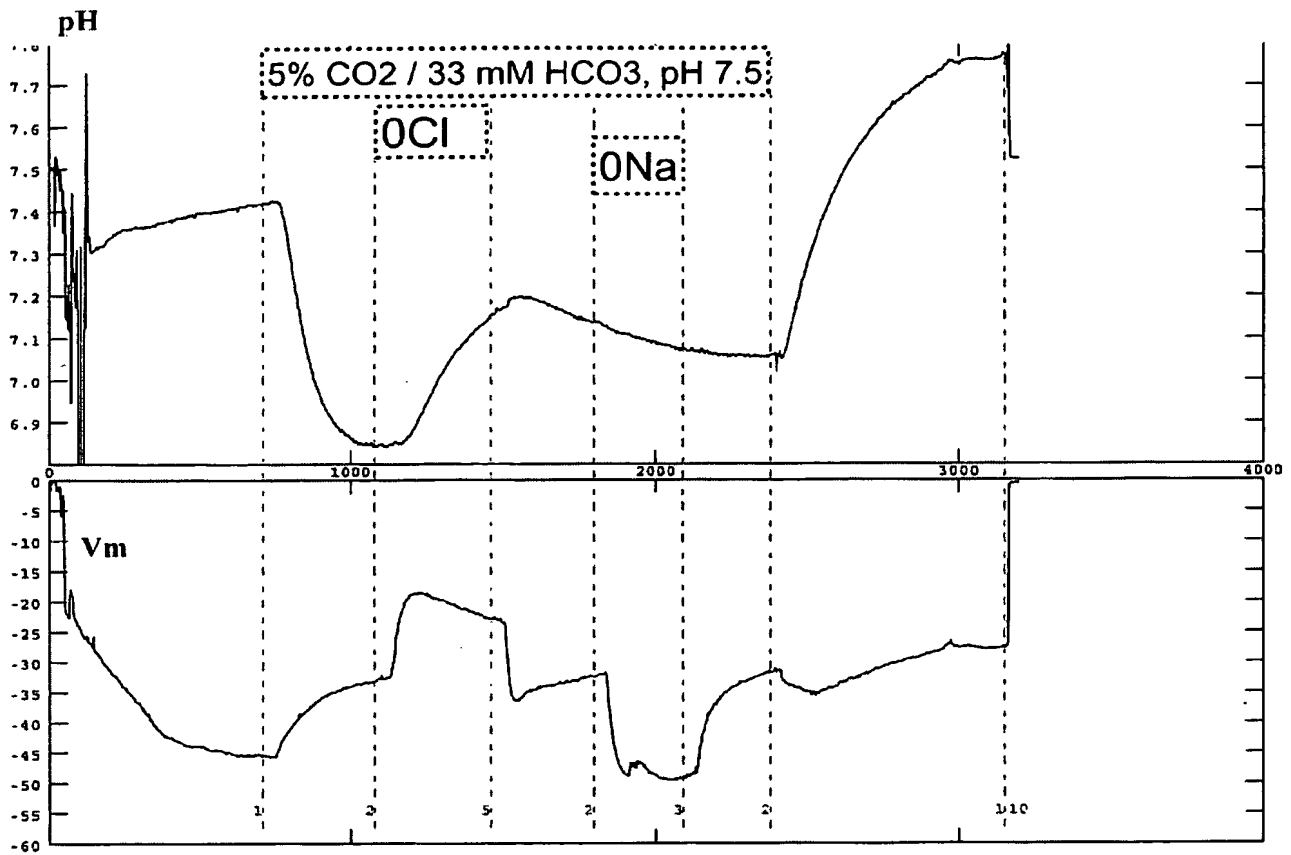


Figure 18

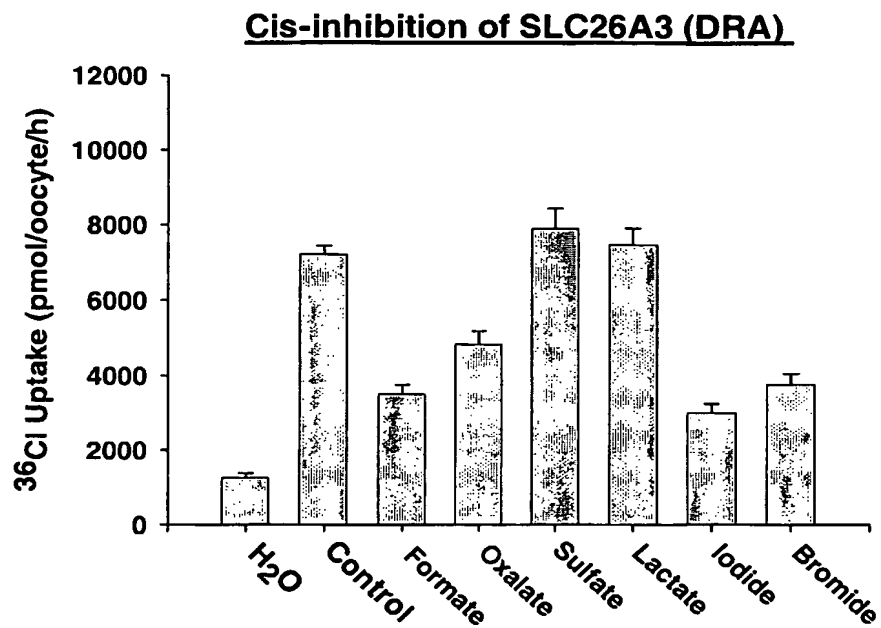


Figure 19

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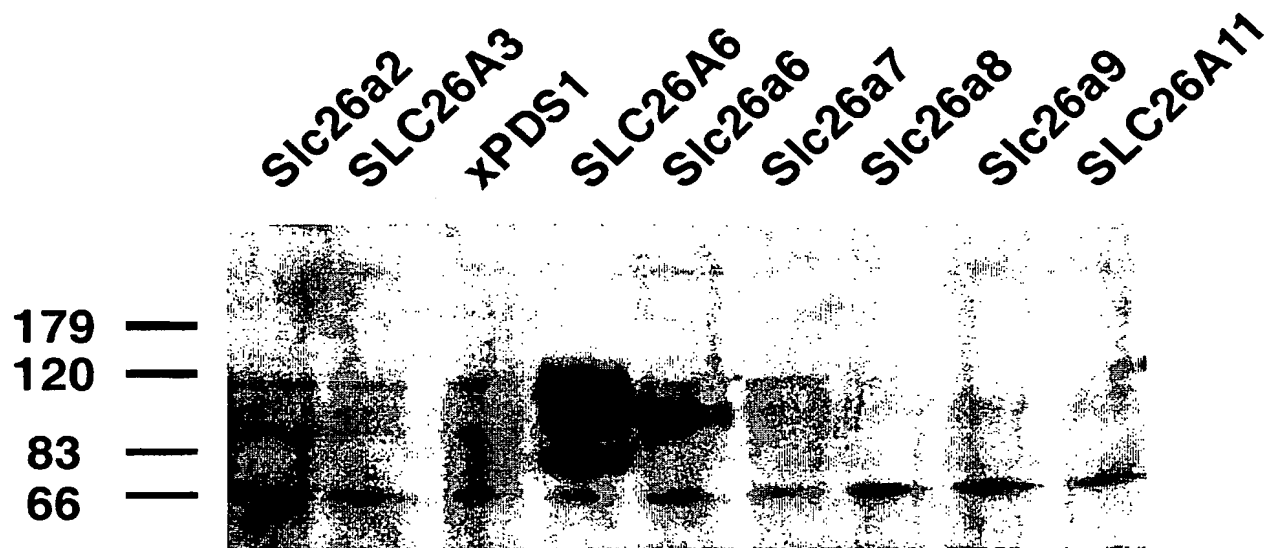


Figure 20

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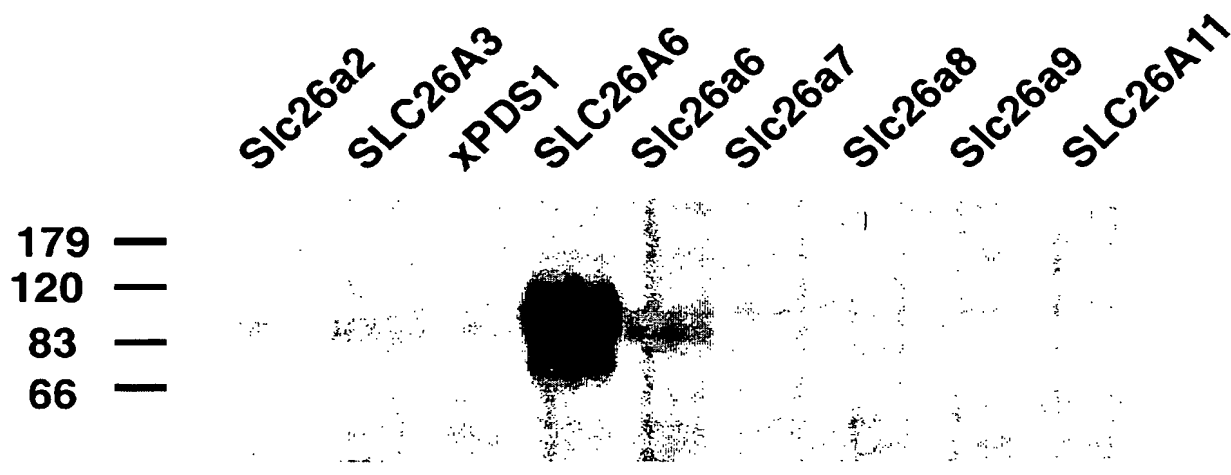


Figure 21

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